WATER. Easily one of the most vital components in poultry processing. And likely the most critical variable in the bottom line profitability – and even viability – of a processing plant. Poultry processors today are often faced with the need to reduce consumption of fresh water as well as to decrease the plant’s wastewater discharge to satisfy increasingly tough federal, state and local regulations. Fresh water availability and discharge restrictions also impact an operation’s expansion plans.

Water consumption in the poultry processing industry has increased significantly in recent years due to USDA “zero tolerance” directives that are focused on producing a safer and cleaner product for the consumer. These directives have resulted in increased water consumption and wastewater discharge. Getting enough water to maintain production, while facing rising water costs and undersized wastewater treatment plants often results in expensive capital upgrades needed to handle increased water flows. Processing plants need more production flexibility to enhance profitability, and water is the pivotal factor.

THE SOLUTION
There’s a solution, and it is working with resounding success. Cascade® Water Reuse Systems, pioneered and developed by Zentox, recondition water for reuse at poultry processing plants, saving plants millions of gallons of water each week, and providing a cost-effective alternative to capital-intensive wastewater treatment plant upgrades.

Cascade® Systems have been in development since 1997, when Zentox, a water services company, first began addressing poultry process water and wastewater issues. Today, Cascade® Systems are providing up to 80 percent water reuse in poultry plants, and are yielding significant savings in overall water costs from the first day of operation.

Each Cascade® Water Reuse System is custom-designed for the individual processing plant’s needs – from reconditioning and reusing process water to providing total management of the plant’s wastewater system.

Utilizing state-of-the-art technology, the water specialists at Zentox design, build and operate the Cascade® water reuse system that:
- Reduces overall water costs
- Removes load off of existing wastewater treatment plants
- Provides consistent pressure and flow to achieve zero tolerance goals
- Allows for plant expansion
- Reduces environmental pressures
- Exceeds all current USDA guidelines
- Reduces water intake
- Reduces wastewater discharge
- Improves wastewater treatment efficiencies.

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HERE’S HOW THE CASCADE® SYSTEM WORKS
Working with your plant’s layout, logistics, recovery and reuse points, Zentox designs a customized Cascade® System to collect water from a single or multiple source points inside the plant, or from an intermediate point in your wastewater plant, or from your plant’s final effluent. The typical Cascade® System processes the water through a primary liquid-solids separation process followed by multi-stage filtration and disinfects it using a proprietary treatment utilizing ozone and chlorination, then returns the treated water for reuse in the processing plant.

Wastewater and reconditioned water are kept completely separate and are continuously monitored throughout the process. Zentox provides technical assistance in preparing any necessary filings for site specific regulatory approvals. And as part of our commitment to service and performance, we provide each Cascade® System with a turnkey service program including on-site operator for all operation, sanitation and preventative maintenance.

Depending on your plant’s volume and the system configuration, 200 to 2,000 gallons of water per minute can be reconditioned and saved with the Cascade® System. The Cascade® System is built outside of your plant so that it is non-invasive and can be easily upgraded. It can be financed on an operating or capital lease basis or purchased outright. On an operating lease basis, typical monthly lease payments are lower than monthly water acquisition and discharge costs resulting in a net positive cash flow from day one of operation.

With Zentox as your water services partner, you can focus on the business of poultry processing. And you can be confident that Cascade® Water Reuse Systems are providing the most efficient, economical and environmentally sound water solutions available.

Cascade® Water Reuse Systems:
- Pure innovation.
- Proven economics.
- Clearly the future of water reconditioning and reuse.
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